



XIX. Hymenoptera Aculeata collected in Algeria by the
 Rev. ALFRED EDWIN EATON, M.A., F.E.S., and
 the Rev. FRANCIS DAVID MORICE, M.A., F.E.S.
 Part IV. *Descriptions of new Sphegidae*. By the
 late EDWARD SAUNDERS, F.R.S.

[Read March 2nd, 1910.]

[THE following descriptions were intended for incorporation in what would have been the concluding part (dealing with the *Sphegidae*) of a Paper commenced under the above title in these Transactions in 1901 and continued in 1905 and 1908.

The author had before and during his last illness made some progress with other portions of the intended work; but these are in too incomplete and fragmentary a state to be published as they were left. The descriptions, however, though evidently a mere rough draft which the author would have revised and copied afresh before sending it to press, do not seem to require any substantial alteration in order to make them useful to Hymenopterists. They are accordingly reproduced practically as written, only a few clerical and grammatical slips (due to haste) have been silently emended, and here and there a blank space left by the writer for localities, dates, measurements, etc., to be added later, has been filled by an insertion for which the author is not to be considered responsible, such insertions being always indicated by the employment of square brackets [].

Mr. Eaton presented all his captures to Mr. Saunders, and they are now—except a few given or exchanged away by the latter in his lifetime as duplicates—in the Natural History Museum at South Kensington.

The other materials gathered by Mr. Saunders for his paper have been handed over to a colleague whom he had invited to co-operate in preparing it, and it is hoped that in some form or other at least their main substance may be made available to Hymenopterists by communication to the Society before the end of the present year.]

1. SPHEX [HARPACTOPUS] EATONI, n. sp.

Niger, capite pro- et mesonoto (scutello excepto) pilis adpressis argenteis dense vestitis. Ad *S. lugentem* Kohl proxime accedit, is tamen rugis validis mesonoti facile distinguitur. Etiam *S. tyranno* Smith colore similis, is autem differt pedibus setis rigidis instructis. Ab *S. stschuwowskii* Rad. propter scutellum rugosum etc. mox distinguendus.

Black clothed with black hairs. ♀ with the face (except a bright glabrous spot at the apex of the clypeus), the vertex, the pro- and mesonotum (excluding the scutellum), and the base of the tegulae covered with a dense silvery pubescence which entirely hides the sculpture beneath. ♂ resembling the ♀ but with only the face and mesonotum silvery. Clypeus covered with somewhat remote black bristles which project beyond the silvery surface, its apical margin rounded, raised and slightly sinuate in the centre, more truncate in the ♂ than in the ♀—just above the apex is a shining shallow impression. Mandibles in the ♀ large, the apical tooth very elongate, more so than in *stschuwowskii* var. *hyalipennis*, Kohl. Head with black hairs in the ♂, the cheeks behind the eyes with a long beard. (In the ♀ the only long black hairs are on the cheeks beneath, the mandibles, clypeus, and labrum; a few very short ones show through the silvery hairs of the vertex and back of the head.) The pronotum propleurae and prosternum are obliquely striate where the surface is not hidden by the silvery pubescence (as it is, partly, in the ♀). Mesopleurae and sternum rugose above, the rugosities [? of the former] taking the form of striae as they approach the sternum in the ♀; entirely rugose (as well as the sternum) in the ♂. Tegulae clothed at the base with silvery hairs in the ♀, with greyish-black ones in the ♂.

Wings nearly black, with violet reflections: the hind-wings in the ♀ clear only beyond the cells; the 2nd submarginal cell narrowed to its apex where it is scarcely more than half as wide as its base; the 3rd a little less narrowed towards its apex than is the 2nd in the ♀, narrowed in about the same proportion as the 2nd in the ♂; (the bases of the two cells are of about equal length).

Scutellum moderately convex, rugose with signs of longitudinal striae; postscutellum transversely strigose. Propodeum with a pentagonal area which is clothed with rather short semi-decumbent hairs and rugose in both sexes—its sides are rugosely diagonally strigose, and in the ♂ the rugosities towards the base of the abdomen are larger, and tend to become clathrate. In one of my ♀♀ the area tends to be rufescent in certain lights. Legs entirely black,